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Vocational Education Statistics 1984-85

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HIGHLIGHTS

- In 1984-85, there were 197,996 students enrolled in secondary vocational education programs in Pennsylvania. This was a decline of 63,366 enrollees or 24.2 percent from the peak of 261,362 in 1978-79. During that same six year period, total public secondary enrollments in grades 10 through 12 dropped 18.7 percent.

- In 1984-85, 364,092 students were enrolled in vocational education programs. These included 197,996 at the secondary level; 93,133 at the postsecondary level (includes only the community colleges, The Pennsylvania State University, and 59 other institutions); and 72,963 at the adult level in secondary schools.

- Females accounted for 52.2 percent of the total vocational education enrollments.

- Minorities represented more than 14 percent of all students enrolled in vocational education.

- Approximately 62 percent of all secondary level vocational education students attended a vocational education program operated by a high school, while another 36 percent attended a vocational education program operated by an area vocational-technical school (AVTS); the remaining 2 percent attended a program operated by either an intermediate unit or a correctional institution.

- Secondary vocational education served 18,425 handicapped, 57,355 disadvantaged, and 1,596 limited English proficiency students in 1984-85.

- Responses from the follow-up survey of the 74,709 vocational education completers in 1983-84 indicated that close to 86 percent were gainfully placed (employed, military service, or pursuing additional education).

- Over $434 million were expended in support of vocational education programs in 1984-85.

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INTRODUCTION

"Vocational Education Statistics, 1984-85" is one in a series of publications containing statistical summaries related to basic education, higher education, and vocational education in Pennsylvania. The data contained in this publication reflects current year figures as well as trends on a variety of selected topics. In many instances, more detailed data is available.

Requests for more detailed data and questions or comments about the data should be addressed to the Pennsylvania Department of Education, Division of Data Services, 333 Market Street, Harrisburg, PA 17126-0333 (phone 717-787-2644).

Sources:
- Vocational Secondary Students Aggregate Enrollment Report (PDE-4051)
- Special Federally Funded Handicapped and Disadvantaged Vocational Students Aggregate Enrollment Report (PDE-4046-B)
- Special Education Work Experience Student Data (PDE-4047)
- Vocational Adult Students Aggregate Enrollment Report (PDE-4049)
- Vocational Postsecondary Students Aggregate Enrollment Report (PDE-4052)
- Enrollment and Termination Form for Customized Job Training, Health Occupations Education, or Training for Occupations with Promise (PDE-4023)
- Secondary Vocational Student Follow-up (PDE-4519)
- Adult Vocational Student Follow-up (PDE-4520)
- Postsecondary Vocational Student Follow-up (PDE-4521)
- Postsecondary Completer Follow-up Report (PDE-4054)
- Basic Data for Personnel Servicing Vocational Education Programs (Secondary Level) (PDE-5023)

TABLE 1

VOCATIONAL EDUCATION ENROLLMENTS BY LEVEL AND PROGRAM FIELD
1975-76 THROUGH 1984-85

	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85
GRAND TOTAL	385 951	395 040	436 185	443 220	421 411	405 718	400 440	395 190	373 947	364 092
SECONDARY TOTAL	254 800	252 739	259 914	261 362	258 913	251 849	242 920	233 242	216 910	197 996
Agriculture Education	15 582	15 784	16 377	15 637	14 723	13 825	13 435	12 728	11 718	11 122
Business Education	68 800	65 106	65 552	64 811	63 261	61 110	59 695	61 146	56 198	50 322
Health Occupations Education	4 551	4 826	5 321	5 317	5 070	5 151	4 912	4 866	5 168	5 081
Marketing and Distributive Education	11 069	11 057	11 372	10 853	10 424	9 694	9 120	8 856	7 684	7 071
Occupational Home Economics Education	7 084	7 200	7 906	7 538	7 043	7 637	7 342	10 032	9 845	9 002
Technical Education	11 222	10 949	10 746	10 290	9 592	9 708	9 184	8 827	8 539	7 766
Trade and Industrial Education	66 384	70 781	73 522	76 540	77 462	76 718	73 569	59 859	55 972	51 803
Not Elsewhere Classified	-	-	-	1 833	6 827	4 986	5 090	12 200	11 088	10 983
Consumer and Homemaking Education	70 108	67 036	69 118	68 543	64 511	63 020	60 573	54 728	50 698	44 846
POSTSECONDARY TOTAL	45 076	46 854	33 851	46 006	68 139	71 292	75 381	80 130	83 101	93 133
Agriculture Education	550	196	198	236	359	366	317	786	767	944
Business Education	11 838	14 096	12 162	17 334	20 965	24 463	27 291	29 292	32 971	34 121
Health Occupations Education	11 057	10 992	4 789	6 375	11 767	13 576	14 145	16 248	16 106	17 077
Marketing and Distributive Education	2 556	3 165	2 892	4 313	5 658	5 103	5 024	3 183	3 969	6 049
Occupational Home Economics Education	1 075	879	689	968	1 789	1 063	1 096	2 362	2 291	3 059
Technical Education	9 661	11 200	9 409	11 777	14 964	15 769	16 742	18 734	17 659	19 908
Trade and Industrial Education	8 339	6 326	3 712	5 003	12 637	10 805	10 674	8 245	8 080	10 249
Not Elsewhere Classified	-	-	-	-	-	147	92	1 280	1 258	1 726
ADULT TOTAL	86 075	95 447	142 420	135 852	94 359	82 577	82 139	81 818	73 936	72 963
Agriculture Education	5 261	5 471	5 671	5 218	5 005	5 327	5 429	5 508	4 758	4 841
Business Education	17 558	19 498	23 106	20 325	15 137	15 306	16 149	21 067	22 157	18 771
Health Occupations Education	2 911	4 668	12 391	15 713	7 488	9 032	9 592	9 056	7 413	5 512
Marketing and Distributive Education	397	1 471	2 130	1 790	644	972	1 198	1 467	426	950
Occupational Home Economics Education	3 026	3 101	2 116	2 182	1 178	1 059	876	2 266	2 902	3 165
Technical Education	3 333	6 239	8 595	6 634	3 531	4 798	5 821	5 686	3 721	3 847
Trade and Industrial Education	46 171	49 189	82 978	78 971	57 324	41 228	39 514	33 908	29 902	33 326
Not Elsewhere Classified	-	-	-	-	-	1 479	1 080	368	323	369
Consumer and Homemaking Education	7 418	5 810	5 433	5 019	4 052	3 376	2 480	2 492	2 334	2 182

Pennsylvania's total vocational education enrollments for 1984-85 were 364,092. This represented a drop of 9,855 students (2.6 percent) from the 1983-84 figure, and a 17.9 percent decline from the high of 443,220 students reported in 1978-79.

In 1984-85, 48.0 percent (37.1 percent in occupational programs; 10.9 percent in consumer and homemaking programs) of all public secondary students in grades 10 through 12 participated in a vocational education program.

Postsecondary and adult definitions have changed over the years making attempts at comparison misleading.

A new program coding system entitled "A Classification of Instructional Programs" (CIP) was developed at the national level and was implemented in Pennsylvania in 1982-83. As a result of this new coding system, some programs are now included in different program fields. Several programs that were in trade and industrial education prior to 1982-83 are now in occupational home economics education or not elsewhere classified.

FIGURE 1
VOCATIONAL EDUCATION ENROLLMENTS
SECONDARY, POSTSECONDARY, AND ADULT
1975-76 THROUGH 1984-85

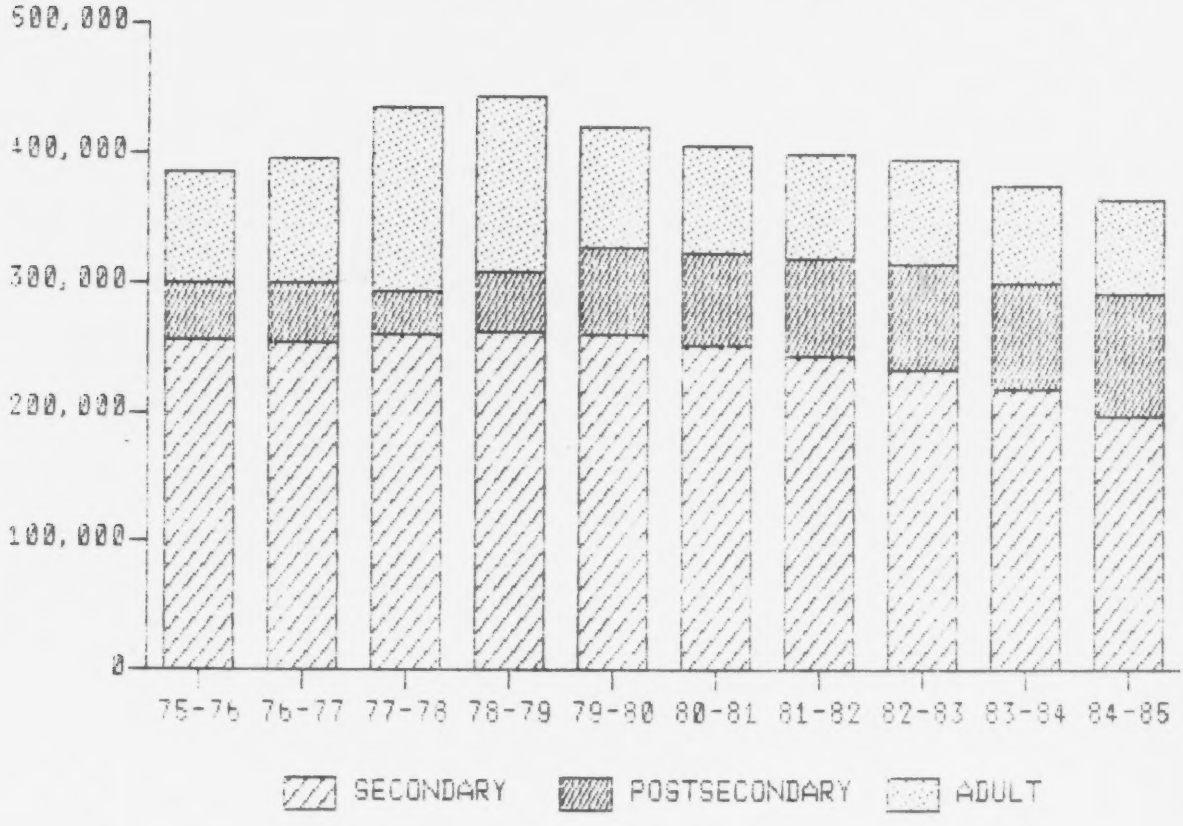


TABLE 2

VOCATIONAL EDUCATION ENROLLMENTS BY LEVEL BY PROGRAM, 1984-85

	Total Enrollment	Secondary	Post-secondary	Adult
GRAND TOTAL	364 092	197 996	93 133	72 963
AGRICULTURE EDUCATION--TOTAL	16 907	11 122	944	4 841
Agricultural mechanics	1 207	986	-	221
Agricultural production	11 969	7 903	17	4 049
Agricultural products	32	32	-	-
Agricultural resources	147	129	18	-
Agricultural services and supplies	127	101	-	26
Agricultural technology	48	48	-	-
Forestry production and processing	425	286	53	86
Horticulture	2 517	1 458	600	439
Parks and recreation	48	-	48	-
Wildlife management	74	-	74	-
Other agriculture education	313	179	134	-
BUSINESS EDUCATION--TOTAL	103 214	50 322	34 121	18 771
Accounting, bookkeeping, and related programs	21 796	14 191	5 568	2 037
Banking and related financial programs	1 197	-	1 184	13
Business administration and management	9 837	-	9 664	173
Business data processing	12 292	2 191	5 083	5 018
Business data programming	4 308	-	3 517	791
Computer and console operation	738	-	340	398
Data entry operation	476	-	34	442
General office and related programs	20 013	18 605	603	805
Labor/industrial relations	101	-	50	51
Office supervision and management	190	-	182	8
Secretarial and related programs	17 574	15 025	1 971	578
Secretarial, executive	1 966	-	1 966	-
Secretarial, legal	711	-	711	-
Secretarial, medical	1 077	-	1 018	59
Stenographic	1 012	-	180	832
Typing and related programs	4 849	-	205	4 644
Word processing	3 319	-	1 373	1 946
Other business education	1 758	310	472	976
HEALTH OCCUPATIONS EDUCATION--TOTAL	27 670	5 081	17 077	5 512
Clinical laboratory assisting	161	161	-	-
Dental assisting	991	423	230	338
Dental hygiene	299	-	299	-
Dental laboratory technology	174	91	37	46
Diagnostic and treatment services	420	-	407	13
Emergency medical technology	1 807	-	1 072	735
Health assisting	2 912	2 788	-	124
Home health aide	264	145	1	118
Medical assisting	1 312	300	637	375
Medical laboratory technology	814	39	714	61
Medical office management	139	-	139	-
Medical records technology	221	-	221	-
Mental health assisting	399	-	399	-
Mental health technology	474	-	474	-
Nursing (associate degree)	4 776	-	4 776	-
Nursing assisting	1 764	960	235	569
Nursing-related, other	1 889	-	1 580	309
Occupational therapy assisting	238	-	238	-
Physical therapy assisting	171	-	171	-
Practical nursing	3 324	-	754	2 570
Radiograph medical technology	521	-	521	-
Respiratory therapy technology	562	-	512	50
Ward clerk	47	-	47	-
Other health occupations education	3 991	174	3 613	204
MARKETING AND DISTRIBUTIVE EDUCATION--TOTAL	14 070	7 071	6 049	950
Apparel and accessories marketing	174	-	174	-
General marketing	1 424	-	1 205	219
Hospitality and recreation marketing	258	27	222	9
Institutional management	1 097	-	1 097	-
Insurance marketing	23	-	23	-
Marketing and distribution	6 517	6 292	49	176
Marketing management	581	-	581	-
Real estate	1 883	-	1 883	-

TABLE 2

VOCATIONAL EDUCATION ENROLLMENTS BY LEVEL BY PROGRAM, 1984-85--Continued

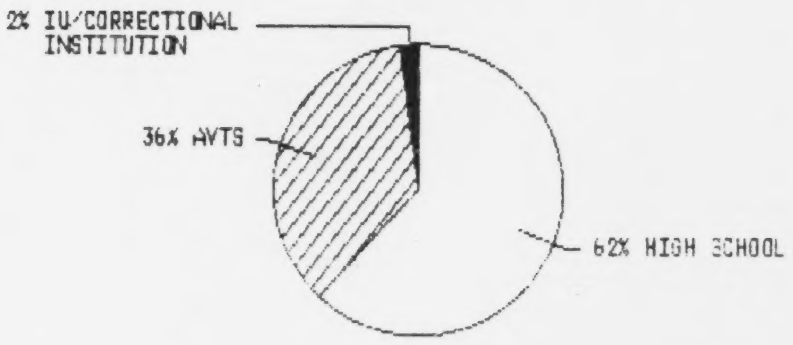
	Total Enrollment	Secondary	Post-secondary	Adult
MARKETING AND DISTRIBUTIVE EDUCATION--Concluded				
Small business management and ownership	902	-	476	426
Transportation and travel marketing	255	54	163	38
Warehouse services marketing	718	673	23	22
Other marketing and distributive education	238	25	153	60
OCCUPATIONAL HOME ECONOMICS EDUCATION--TOTAL	15 226	9 002	3 059	3 165
Baking	722	488	21	213
Chef/cook	656	-	284	372
Child care services	2 224	1 019	1 153	52
Clothing/textiles management and production	1 647	1 192	18	437
Custodial services	272	107	66	99
Dietetic aide/assisting	335	-	335	-
Food production, management, and services	7 092	5 511	1 086	495
Home furnishings, equipment, and services	605	-	-	605
Institutional/home management services	127	118	9	-
Interior design	278	107	81	90
Power sewing	1 119	338	6	775
Other occupational home economics education	149	122	-	27
TECHNICAL EDUCATION--TOTAL	31 521	7 766	19 908	3 847
Aeronautical technology	717	-	717	-
Air transportation	327	-	307	20
Architectural design technology	724	185	539	-
Automotive technology	468	-	457	11
Biomedical equipment technology	494	-	494	-
Chemical technology	267	104	74	89
Civil technology	427	137	199	91
Computer and information sciences	4 094	2 734	866	494
Computer programming	1 476	-	454	1 022
Computer servicing technology	487	51	411	25
Computer technology	503	-	192	311
Criminal justice technology	1 237	-	1 182	55
Data processing	980	-	974	6
Drafting and design technology	933	205	477	251
Electrical technology	2 188	443	1 713	32
Electromechanical technology	368	148	206	14
Electronic technology	7 011	2 472	3 945	594
Engineering technology	644	44	600	-
Environmental control technology	173	44	119	10
Fire control and safety technology	1 134	-	1 134	-
Forest products processing technology	64	-	64	-
Graphic arts technology	505	-	505	-
Industrial production technology	340	19	205	116
Industrial technology	479	-	428	51
Information sciences and systems	419	-	419	-
Legal assisting	459	-	459	-
Manufacturing technology	333	-	227	106
Mechanical design technology	1 359	-	1 205	154
Mechanical drafting/design technology	973	973	-	-
Mining and petroleum technology	245	72	65	108
Nuclear technology	233	-	233	-
Photographic technology	267	-	131	136
Radio/TV production and broadcasting technology	318	-	318	-
Tool and die design technology	165	69	-	96
Welding technology	221	-	221	-
Other technology education	489	66	368	55
TRADE AND INDUSTRIAL EDUCATION--TOTAL	95 378	51 803	10 249	33 326
Aircraft mechanics	152	66	56	30
Appliance repair	751	660	-	91
Audio-visual communications	262	232	-	30
Automotive body repair	4 946	3 820	99	1 027
Automotive mechanics	10 408	6 457	114	3 837
Automotive repair, other	2 671	1 113	139	1 419
Building construction occupations	1 078	1 059	-	19
Building trades maintenance	2 455	2 028	215	212
Carpentry	7 579	4 616	460	2 503

TABLE 2

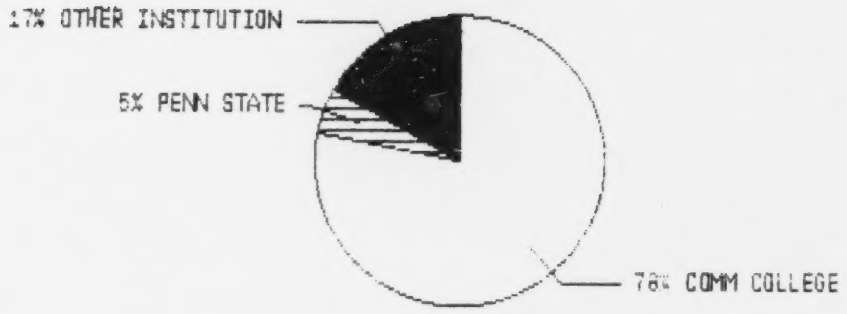
VOCATIONAL EDUCATION ENROLLMENTS BY LEVEL BY PROGRAM, 1984-85--Concluded

	Total Enrollment	Secondary	Post-secondary	Adult
TRADE AND INDUSTRIAL EDUCATION--Concluded				
Commercial art	2 602	1 647	392	563
Commercial photography	565	32	213	320
Communication electronics	1 348	911	4	433
Computer electronics	283	-	277	6
Construction trades, other	835	-	693	142
Cosmetology	6 715	6 321	147	247
Criminal justice	1 001	94	901	6
Diesel engine mechanics	1 363	890	265	208
Drafting occupations	3 470	1 651	970	849
Electrical and electronics equipment repair	626	109	103	414
Electrical and power transmission installation	6 292	2 896	548	2 848
Electronics	1 581	450	42	1 089
Firefighting	2 109	-	465	1 644
Furniture making	153	-	20	133
Graphic and printing communications	3 600	2 203	180	1 217
Heating	756	271	326	159
Heating, air conditioning, and refrigeration	2 167	869	125	1 173
Industrial equipment maintenance and repair	1 366	250	677	439
Journalism	139	-	139	-
Machine shop	6 543	3 269	823	2 451
Masonry and masonry occupations	2 413	1 772	24	617
Material handling	341	-	211	130
Meatcutting	129	90	-	39
Mechanics and repairers, other	165	-	-	165
Metalworking occupations	912	447	220	245
Millwork and cabinet making	2 751	1 286	22	1 443
Oil burner repair	64	-	-	64
Painting and decorating	377	309	-	68
Plumbing and pipefitting	2 581	1 155	279	1 147
Refrigeration	446	-	82	364
Sheet metal	706	450	134	122
Shoe manufacture and repair	158	140	-	18
Small engine repair	1 294	556	68	670
Stationary energy sources occupations	54	-	17	37
Tool and die making	689	106	166	417
Trade and industrial supervision and management	405	-	154	251
Upholstering	757	404	18	335
Vehicle and equipment operation	152	-	7	145
Welding	5 481	2 692	266	2 523
Woodworking, other	784	-	39	745
Other trade and industrial education	903	482	149	272
NOT ELSEWHERE CLASSIFIED--TOTAL	13 078	10 983	1 726	369
Diversified occupations	3 603	3 603	-	-
Pre-elementary education	607	-	607	-
Public administration	523	-	523	-
Other not elsewhere classified	8 345	7 380	596	369
CONSUMER AND HOMEMAKING EDUCATION--TOTAL	47 028	44 846	-	2 182
Child development	51	36	-	15
Clothing and textiles	852	89	-	763
Comprehensive home economics	44 592	44 592	-	-
Consumer education	165	-	-	165
Family/individual health	138	-	-	138
Family living and parenthood	108	-	-	108
Food and nutrition	902	129	-	773
Housing and home furnishings	220	-	-	220

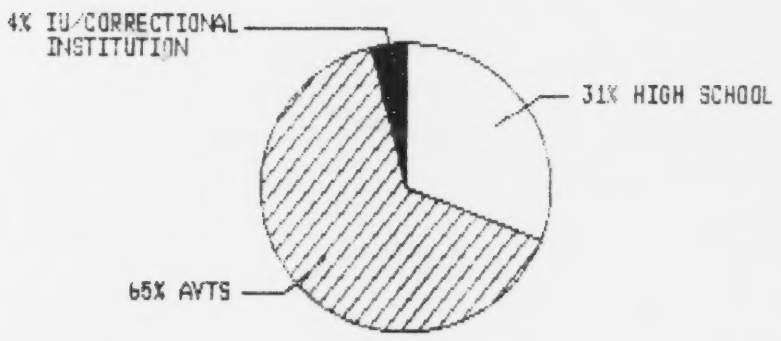
FIGURE 2
VOCATIONAL EDUCATION ENROLLMENTS BY LEVEL
BY TYPE OF INSTITUTION
1984-85



SECONDARY



POSTSECONDARY



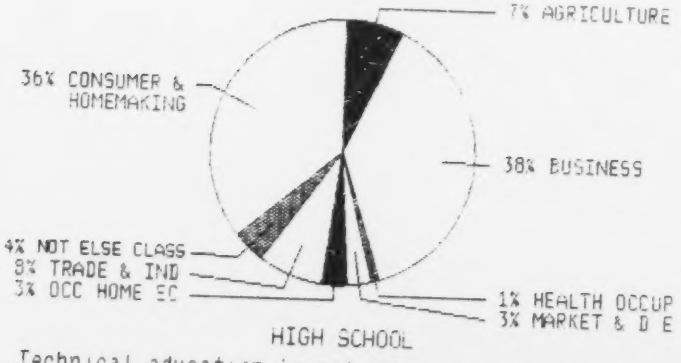
ADULT

TABLE 3

SECONDARY VOCATIONAL EDUCATION ENROLLMENTS
BY TYPE OF INSTITUTION BY PROGRAM FIELD, 1984-85

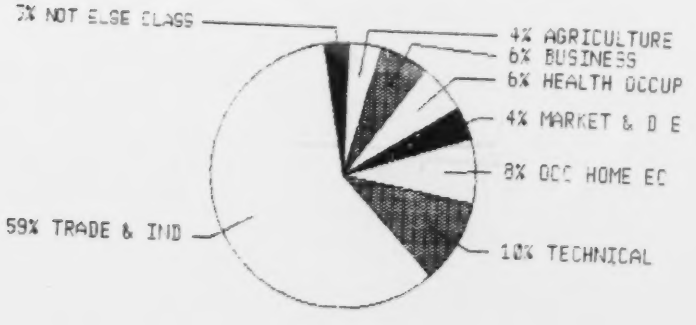
	Total	High School	AVTS	Intermediate Unit	Correctional Institution
SECONDARY TOTAL	197 996	122 880	71 056	3 679	381
Agriculture Education	11 122	8 465	2 527	130	-
Business Education	50 322	46 251	4 036	35	-
Health Occupations Education	5 081	973	4 108	-	-
Marketing and Distributive Education	7 071	4 041	3 005	25	-
Occupational Home Economics Education	9 002	3 263	5 599	140	-
Technical Education	7 766	414	7 352	-	-
Trade and Industrial Education	51 803	9 269	41 980	173	381
Not Elsewhere Classified	10 983	5 358	2 449	3 176	-
Consumer and Homemaking Education	44 846	44 846	-	-	-

FIGURE 3
SECONDARY VOCATIONAL EDUCATION ENROLLMENTS
HIGH SCHOOL VS AVTS BY PROGRAM FIELD
1984-85



HIGH SCHOOL

Technical education is not shown because it represents less than one percent of the total high school enrollment.



AVTS

FIGURE 4
POSTSECONDARY VOCATIONAL EDUCATION
ENROLLMENTS BY STUDENT TYPE
1984-85

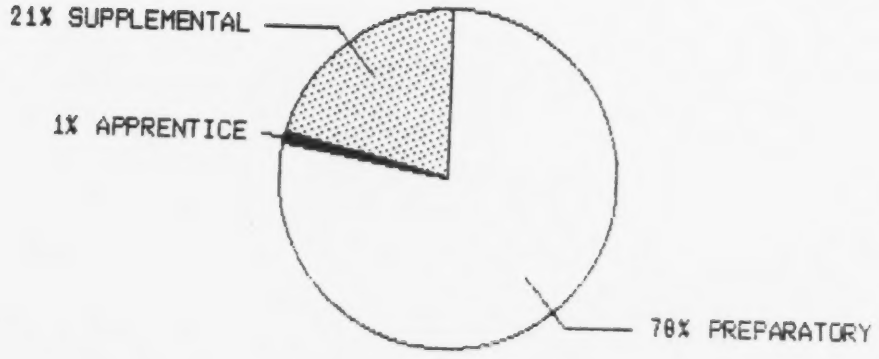


FIGURE 5
ADULT VOCATIONAL EDUCATION
ENROLLMENTS BY STUDENT TYPE
1984-85

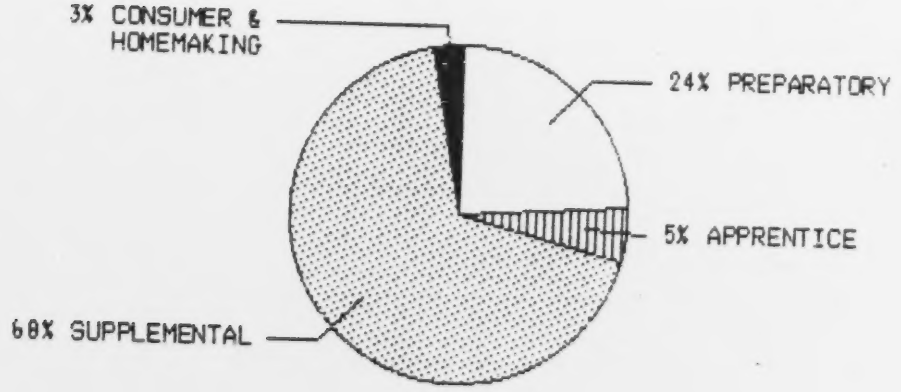


TABLE 4

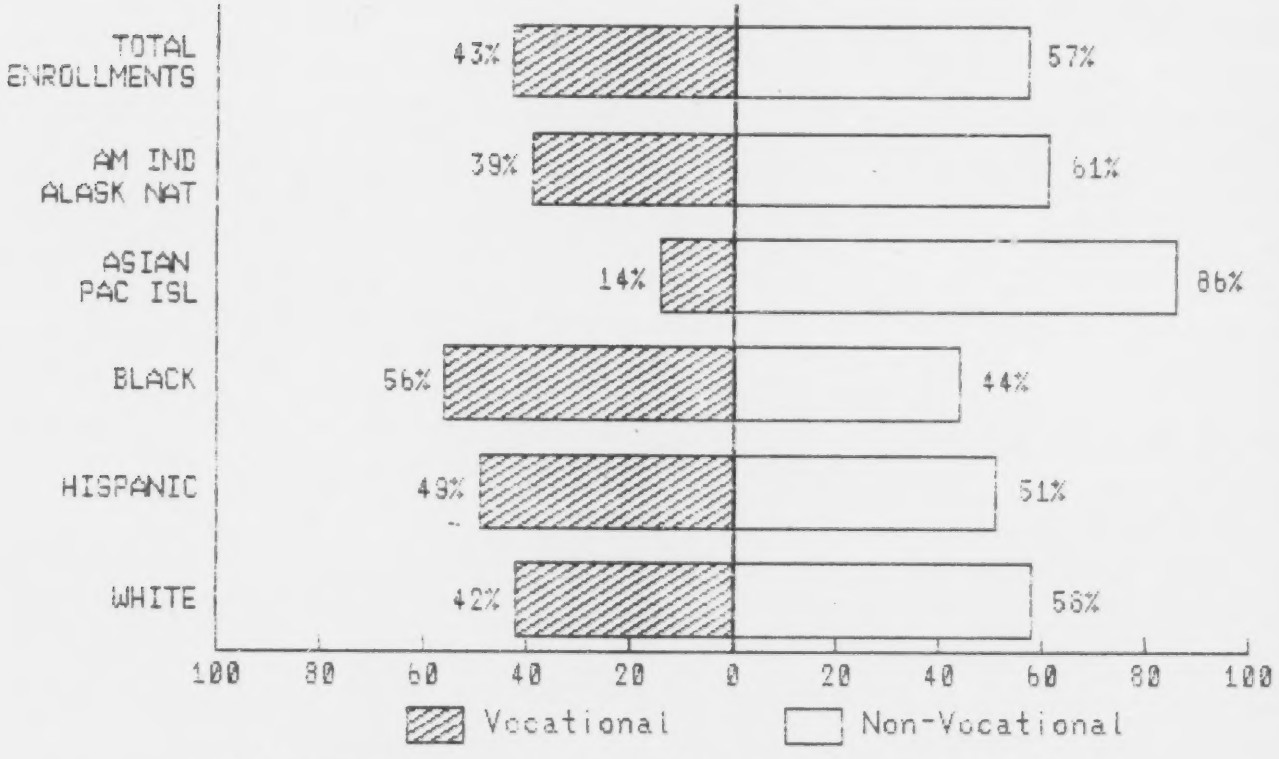
VOCATIONAL EDUCATION ENROLLMENTS BY RACE BY LEVEL AND PROGRAM FIELD, 1984-85

-	Total	American Indian or Alaskan Native	Asian or Pacific Islander	Black, Not of Hispanic Origin	Hispanic	Nonresident Alien	White, Not of Hispanic Origin
GRAND TOTAL	364 092	421	2 098	45 148	5 018	176	311 231
SECONDARY TOTAL	197 996	149	615	30 505	3 685	-	163 042
Agriculture Education	11 122	5	11	386	52	-	10 668
Business Education	50 322	21	104	7 377	787	-	42 033
Health Occupations Education	5 081	8	20	1 003	143	-	3 907
Marketing and Distributive Education	7 071	12	18	1 402	118	-	5 521
Occupational Home Economics Education	9 002	6	41	2 527	238	-	6 190
Technical Education	7 766	11	36	843	137	-	6 739
Trade and Industrial Education	51 803	63	197	7 940	1 069	-	42 534
Not Elsewhere Classified	10 983	5	35	2 677	517	-	7 749
Consumer and Homemaking Education	44 846	18	153	6 350	624	-	37 701
POSTSECONDARY TOTAL	93 133	188	950	8 478	849	176	82 492
Agriculture Education	944	3	-	11	2	6	922
Business Education	34 121	80	421	4 263	393	88	28 876
Health Occupations Education	17 027	24	81	1 133	136	18	15 685
Marketing and Distributive Education	6 049	19	41	610	71	4	5 304
Occupational Home Economics Education	3 059	7	32	358	33	5	2 624
Technical Education	19 908	30	296	1 341	174	45	18 022
Trade and Industrial Education	10 249	22	75	604	33	9	9 506
Not Elsewhere Classified	1 726	3	4	158	7	1	1 553
ADULT TOTAL	72 963	84	533	6 165	484	-	65 697
Agriculture Education	4 841	2	3	14	7	-	4 815
Business Education	18 771	12	142	1 990	88	-	16 539
Health Occupations Education	5 512	9	22	401	26	-	5 054
Marketing and Distributive Education	950	2	3	89	10	-	846
Occupational Home Economics Education	3 165	20	75	771	73	-	2 226
Technical Education	3 847	-	46	343	10	-	3 448
Trade and Industrial Education	33 326	39	234	2 431	259	-	30 363
Not Elsewhere Classified	369	-	2	20	1	-	346
Consumer and Homemaking Education	2 182	-	6	106	10	-	2 060

The percentage breakdowns of vocational education enrollments by race are: 85.48 White, not of Hispanic origin; 12.40 Black, not of Hispanic origin; 1.38 Hispanic; 0.58 Asian or Pacific Islander; 0.11 American Indian or Alaskan Native; and 0.05 nonresident alien.

Minorities (excludes nonresident aliens) account for 14.47 percent of vocational education enrollments. The percents of minority enrollments by program vary considerably. The percentage breakdowns are: 2.93 agriculture education, 15.19 business education, 10.86 health occupations education, 17.02 marketing and distributive education, 27.46 occupational home economics education, 10.36 technical education, 13.59 trade and industrial education, 26.22 not elsewhere classified, and 15.45 consumer and homemaking education.

FIGURE 6
PUBLIC SECONDARY ENROLLMENTS BY RACE
VOCATIONAL VS NON-VOCATIONAL[1/]
1984-85



[1/] Includes 10th, 11th, and 12th grades only

TABLE 5

VOCATIONAL EDUCATION ENROLLMENTS BY SEX BY LEVEL AND PROGRAM FIELD, 1984-85

	Total	Female	Male
GRAND TOTAL	364 092	189 958	174 134
SECONDARY TOTAL	197 996	109 859	88 137
Agriculture Education	11 122	2 342	8 780
Business Education	50 322	40 966	9 356
Health Occupations Education	5 081	4 711	370
Marketing and Distributive Education	7 071	4 404	2 667
Occupational Home Economics Education	9 002	6 098	2 904
Technical Education	7 766	2 180	5 586
Trade and Industrial Education	51 803	9 826	41 977
Not Elsewhere Classified	10 983	4 275	6 708
Consumer and Homemaking Education	44 846	35 057	9 789
POSTSECONDARY TOTAL	93 133	49 898	43 235
Agriculture Education	944	433	511
Business Education	34 121	23 043	11 078
Health Occupations Education	17 077	14 231	2 846
Marketing and Distributive Education	6 049	3 427	2 622
Occupational Home Economics Education	3 059	2 069	990
Technical Education	19 908	3 863	16 045
Trade and Industrial Education	10 249	1 551	8 698
Not Elsewhere Classified	1 726	1 281	445
ADULT TOTAL	72 963	30 201	42 762
Agriculture Education	4 841	693	4 148
Business Education	18 771	14 733	4 038
Health Occupations Education	5 512	4 669	843
Marketing and Distributive Education	950	443	507
Occupational Home Economics Education	3 165	2 621	544
Technical Education	3 847	1 454	2 393
Trade and Industrial Education	33 326	3 526	29 800
Not Elsewhere Classified	369	119	250
Consumer and Homemaking Education	2 182	1 943	239

Females account for 52.2 percent of the total vocational education enrollment and 48.2 percent of the occupational enrollment. Although sex equity efforts have contributed to an increase in females and males in nontraditional areas, the overall enrollment picture is still aligned according to the traditional female/male roles.

FIGURE 7
SECONDARY VOCATIONAL EDUCATION ENROLLMENTS BY GRADE
1984-85

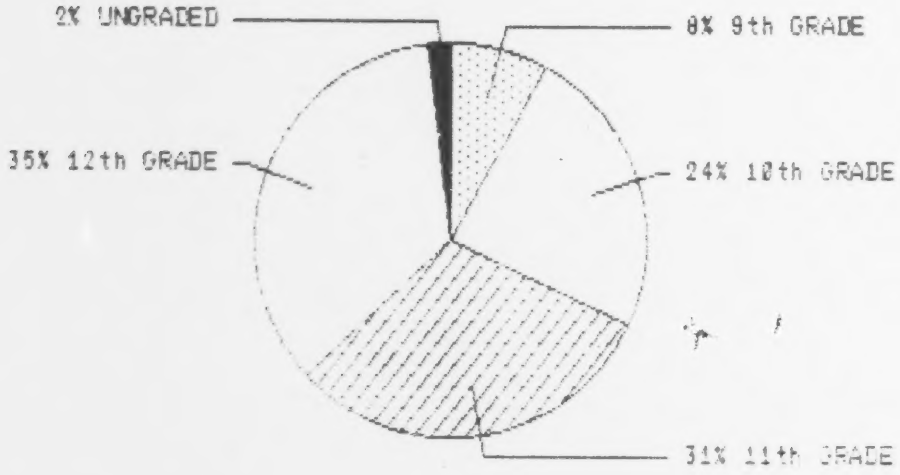
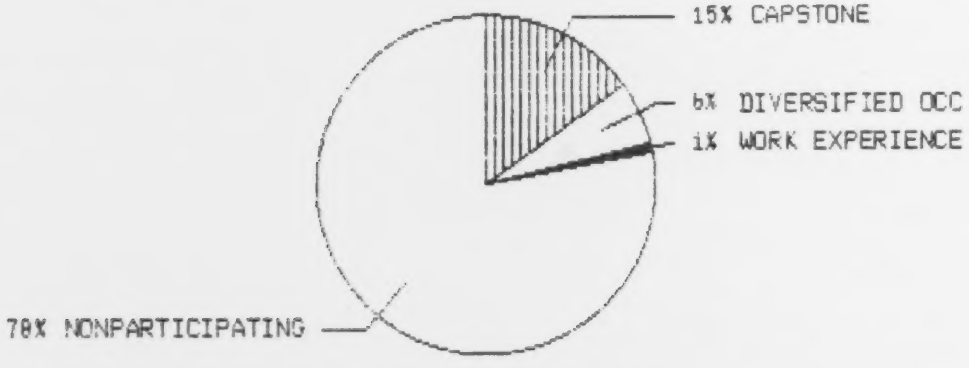


FIGURE 8
SECONDARY COOPERATIVE EDUCATION AS A PERCENT
OF OCCUPATIONAL ENROLLMENTS
1984-85



Twelfth Grade Students

TABLE 6

SECONDARY VOCATIONAL EDUCATION ENROLLMENTS BY SPECIAL NEEDS BY PROGRAM FIELD, 1984-85

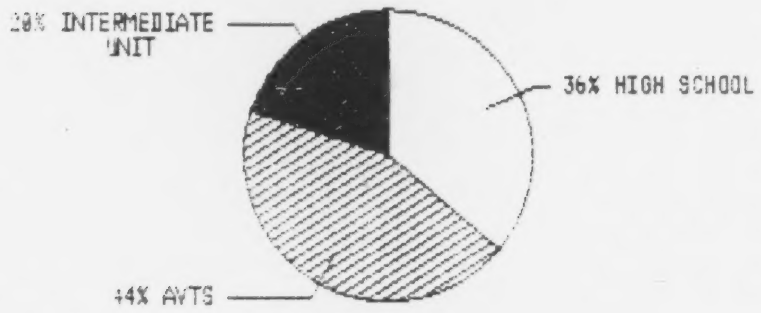
	Handicapped	Disadvantaged	Limited English Proficiency
SECONDARY TOTAL[1/]	18 425	57 355	1 596
Agriculture Education	986	2 742	13
Business Education	679	12 453	449
Health Occupations Education	426	1 751	62
Marketing and Distributive Education	548	2 272	82
Occupational Home Economics Education	2 001	3 782	90
Technical Education	181	1 865	65
Trade and Industrial Education	6 532	17 151	500
Not Elsewhere Classified	4 790	4 300	118
Consumer and Homemaking Education	2 282	11 039	217

1/ Does not include enrollments in correctional institutions.

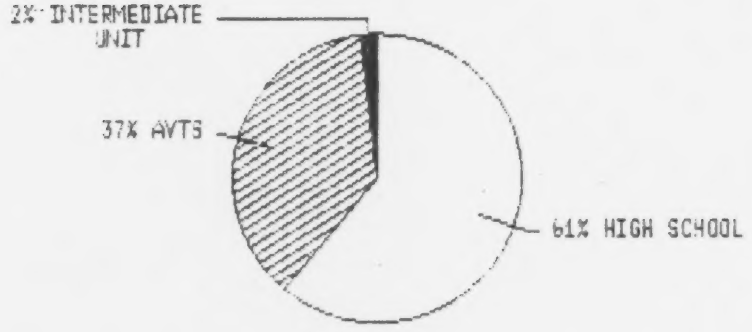
Of the 197,615 students (excluding 381 in correctional institutions) being served by vocational education at the secondary level, 9.3 percent are handicapped, 29.0 percent are disadvantaged, and 0.8 percent have limited English proficiency. There is some overlap in these three percentages since a student may be reported in more than one special needs area.

Special needs students may be enrolled in a separate vocational education program or in a mainstream program with regular students. In 1984-85, 63.3 percent of the handicapped, 90.8 percent of the disadvantaged, and 88.1 percent of the limited English proficiency students were in a mainstream program.

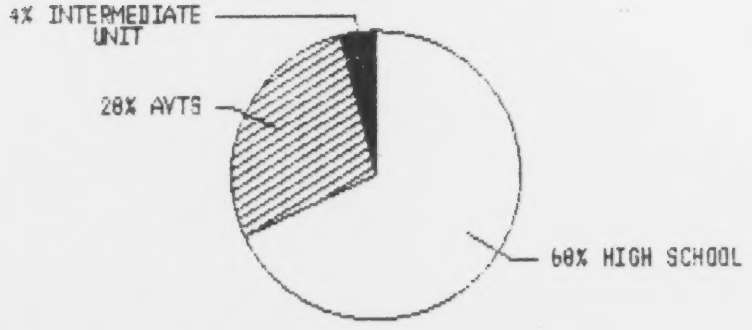
FIGURE 9
SECONDARY VOCATIONAL EDUCATION
SPECIAL NEEDS ENROLLMENTS BY TYPE OF INSTITUTION
1984-85



HANDICAPPED



DISADVANTAGED



LIMITED ENGLISH PROFICIENCY

TABLE 7

EMPLOYMENT STATUS FOLLOW-UP OF VOCATIONAL EDUCATION COMPLETERS
BY LEVEL, PROGRAM FIELD, AND SELECTED PROGRAMS, 1983-84

	Completers[1]	Percent of Respondents						
		Employed Related to Training	Employed Not Related to Training	Military Service	Pursuing Additional Education	Total Gainfully Placed[2]	Unemployed Looking	Unemployed Not Looking
GRAND TOTAL	74 709	36.4	24.5	5.1	19.9	85.9	10.0	4.1
SECONDARY TOTAL	52 711	31.4	24.6	6.6	23.4	86.0	10.6	3.4
Agriculture Education	2 616	31.7	31.1	8.7	13.9	85.4	11.8	2.8
Agriculture mechanics	293	23.6	27.9	15.7	15.7	82.9	15.0	2.1
Agriculture production	1 560	35.5	30.1	9.1	14.0	88.7	9.1	2.2
Horticulture	564	28.3	39.1	3.1	8.0	78.5	16.5	5.0
Business Education	20 480	29.9	21.0	2.5	33.4	86.8	9.6	3.6
Accounting, bkkpg., and related programs	5 944	17.8	23.2	3.6	43.8	88.4	8.9	2.7
Business data processing	754	26.6	22.2	4.9	36.1	89.8	8.4	1.8
General office and related programs	7 314	27.8	23.0	2.7	29.7	83.2	12.1	4.7
Secretarial and related programs	6 446	42.0	17.2	1.2	27.8	88.2	8.2	3.6
Health Occupations Education	1 812	34.9	19.3	2.7	24.0	80.9	13.2	5.9
Dental assisting	160	46.7	27.2	2.2	14.1	90.2	8.7	1.1
Health assisting	1 096	38.6	17.5	2.3	22.4	80.8	11.9	7.3
Nursing assisting	234	19.4	17.5	5.8	76.2	68.9	24.3	6.8
Marketing and Distributive Education	2 901	34.6	23.2	5.0	18.5	81.3	13.5	5.2
Marketing and distribution	2 630	35.9	22.8	4.7	18.7	82.1	12.7	5.2
Warehouse services marketing	212	25.8	28.9	7.2	10.3	72.2	21.6	6.2
Occupational Home Economics Education	2 682	32.4	21.1	5.5	15.3	74.3	19.7	6.0
Child care services	211	11.2	36.7	2.1	36.7	86.7	8.2	5.1
Clothing/textiles management and production	426	22.0	23.7	2.9	24.8	73.4	22.0	4.6
Food production, management, and services	1 700	38.6	16.5	6.9	11.7	73.7	20.1	6.2
Technical Education	2 776	21.3	21.5	10.0	37.7	90.5	7.0	2.5
Computer and information sciences	1 062	23.3	22.3	5.7	35.6	86.9	8.6	4.5
Electronic technology	760	15.3	19.1	18.4	41.7	94.5	4.3	1.2
Mechanical drafting/design technology	419	18.9	26.4	7.9	41.9	95.1	4.0	.9
Trade and Industrial Education	16 275	33.8	29.1	11.3	12.6	86.8	10.9	2.3
Appliance repair	228	24.6	37.3	12.7	13.6	88.2	11.8	-
Automotive body repair	1 191	30.5	36.4	9.8	6.4	83.1	16.0	.9
Automotive mechanics	1 872	38.8	28.7	11.4	11.2	90.1	9.4	.5
Building construction occupations	194	36.3	19.5	15.6	11.7	83.1	16.9	-
Building trades maintenance	554	33.7	27.7	13.6	8.7	83.7	14.4	1.9
Carpentry	1 397	43.6	27.1	10.4	7.8	88.9	10.0	1.1
Commercial art	515	16.1	26.6	5.7	35.4	83.8	10.5	5.7
Communication electronics	224	6.7	16.7	26.7	35.5	85.6	12.2	2.2
Cosmetology	1 906	41.4	28.6	1.2	9.1	80.3	11.0	8.7
Diesel engine mechanics	293	34.6	30.2	13.6	14.2	92.6	7.4	-
Drafting occupations	493	13.7	21.1	12.3	41.9	89.0	8.4	2.6
Electrical & power transmission installation	941	28.2	26.4	17.2	16.4	88.2	11.2	.6
Graphic and printing communications	741	33.4	26.5	9.2	16.1	85.2	12.0	2.8
Heating, air conditioning, and refrigeration	288	23.6	34.3	7.1	18.6	83.6	15.7	.7
Machine shop	1 286	40.8	26.3	13.2	11.2	91.5	7.2	1.3
Masonry and masonry occupations	682	27.2	35.9	17.5	9.4	90.0	8.8	1.2
Millwork and cabinet making	389	34.7	34.2	10.0	5.3	84.2	15.3	.5
Plumbing and pipefitting	400	40.3	30.1	10.2	8.7	89.3	9.7	1.0
Welding	940	32.3	31.2	17.9	6.7	88.1	10.8	1.1
Not Elsewhere Classified	3 169	34.6	31.2	9.6	14.3	89.7	7.5	2.8
Diversified occupations	3 169	34.6	31.2	9.6	14.3	89.7	7.5	2.8
POSTSECONDARY TOTAL	11 677	60.5	15.1	1.1	14.9	91.6	6.4	2.0
Agriculture Education	170	66.3	19.0	2.1	10.5	97.9	2.1	-
Business Education	3 537	50.8	21.3	.7	16.4	89.2	8.0	2.8
Accounting, bkkpg., and related programs	395	46.8	13.5	.8	27.8	88.9	10.3	.8
Business administration and management	850	49.8	19.4	.7	19.4	89.3	8.3	2.4
Business data processing	621	46.4	23.8	-	17.9	88.1	8.3	3.6
Secretarial, steno., and related programs	652	72.2	15.2	.6	6.3	94.3	2.5	3.2
Health Occupations Education	2 791	79.2	6.2	.1	5.8	91.3	6.3	2.4
Nursing (associate degree)	1 094	90.1	2.4	-	2.3	94.8	2.8	2.4
Marketing and Distributive Education	519	44.6	17.9	-	25.0	87.5	8.0	4.5
Occupational Home Economics Education	460	52.8	12.2	-	23.6	88.6	7.3	4.1

TABLE 7

EMPLOYMENT STATUS FOLLOW-UP OF VOCATIONAL EDUCATION COMPLETERS
BY LEVEL, PROGRAM FIELD, AND SELECTED PROGRAMS, 1983-84--Concluded

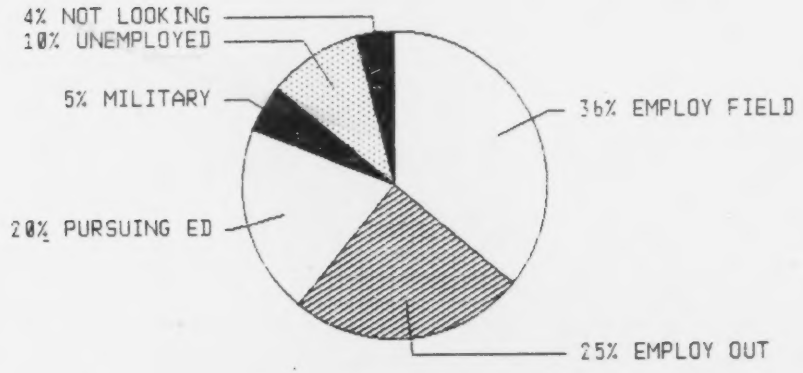
	Completers[1]	Percent of Respondents						
		Employed Related to Training	Employed Not Related to Training	Military Service	Pursuing Additional Education	Total Gainfully Placed[2]	Unemployed Looking	Unemployed Not Looking
POSTSECONDARY--Concluded								
Technical Education	2 667	57.6	14.2	1.9	20.3	94.0	4.9	1.1
Electrical technology	568	62.2	14.5	1.5	16.2	94.4	4.7	.9
Electronic technology	321	60.9	16.1	4.6	9.2	90.8	8.0	1.2
Mechanical design technology	334	47.9	11.9	1.6	33.5	94.9	4.6	.5
Trade and Industrial Education	1 435	61.9	18.2	2.4	10.8	93.3	6.1	.6
Not Elsewhere Classified[3]	98	22.2	11.1	-	22.2	55.5	33.4	11.1
ADULT TOTAL	10 321	43.8	31.2	.6	5.5	81.1	9.2	9.7
Agriculture Education	102	25.9	44.8	-	3.4	74.1	12.1	13.8
Horticulture	75	18.6	55.8	-	-	74.4	11.6	14.0
Business Education	2 158	33.3	37.2	.4	5.9	76.8	10.3	12.9
Accounting, bkkpg., and related programs	258	32.7	33.3	-	3.4	69.4	15.0	15.6
Business data processing	535	29.0	44.6	.7	6.2	80.5	7.6	11.9
Secretarial and related programs	110	57.1	22.2	-	4.8	84.1	4.8	11.1
Typing and related programs	459	36.2	30.8	.5	9.0	76.5	9.5	14.0
Word processing	280	25.6	46.0	1.1	3.2	75.9	13.4	10.7
Health Occupations Education	3 016	66.2	14.8	.2	4.6	85.8	7.0	7.2
Medical assisting	177	19.4	38.7	-	11.8	69.9	17.2	12.9
Nursing assisting	365	37.8	28.5	-	6.7	73.0	13.0	14.0
Practical nursing	2 043	80.5	6.4	.2	2.7	89.8	5.5	4.7
Marketing and Distributive Education[3]	80	39.5	47.4	-	2.6	89.5	2.6	7.9
Occupational Home Economics Education	623	13.6	39.4	.5	5.1	58.6	14.1	27.3
Power sewing	240	22.2	13.0	1.9	11.1	48.2	33.3	18.5
Technical Education	806	32.1	42.6	1.2	6.8	82.7	10.7	6.6
Computer and information sciences	250	25.6	51.2	-	7.2	84.0	7.2	8.8
Computer programming	167	29.2	41.6	1.1	7.9	79.8	6.7	13.5
Electronic technology	112	45.8	27.1	3.4	6.8	83.1	16.9	-
Trade and Industrial Education	3 536	35.2	39.6	.9	6.1	81.8	9.8	8.4
Automotive body repair	164	15.8	61.4	1.7	5.3	84.2	10.5	5.3
Automotive mechanics	360	23.7	45.9	.7	8.2	78.5	13.3	8.2
Carpentry	174	22.4	52.2	-	6.0	80.6	9.0	10.4
Commercial art	90	12.2	43.9	2.5	7.3	65.9	7.3	26.8
Electrical & power transmission installation	380	40.8	40.8	-	8.4	90.0	7.8	2.2
Electronics	143	58.2	26.8	-	6.0	91.0	4.5	4.5
Graphics and printing communications	149	31.0	42.3	-	4.2	77.5	4.2	18.3
Machine shop	394	51.8	22.0	2.6	8.2	84.6	12.8	2.6
Small engine repair	109	8.2	51.0	-	8.2	67.4	10.2	22.4
Welding	485	39.8	42.7	.9	5.1	88.5	6.8	4.7

1/ The sum of the program totals will not equal the program field totals since only selected programs are listed.
2/ "Total gainfully placed" includes "employed related to training," "employed not related to training," "military service," and "pursuing additional education."
3/ Less than 40 respondents.

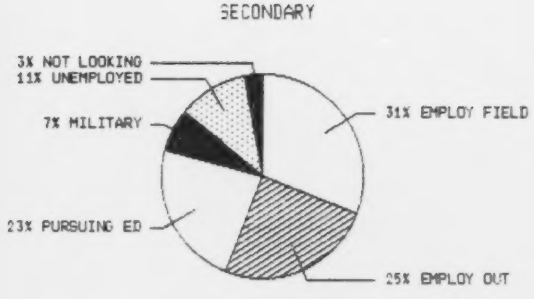
The student follow-up of vocational education completers from the 1983-84 school year was conducted during the summer of 1985. The secondary response rate was 49.3 percent; postsecondary, 55.9 percent; adult, 51.0 percent. At the postsecondary level, a sampling plan is used; therefore, 31 of the 47 postsecondary institutions were included in this follow-up.

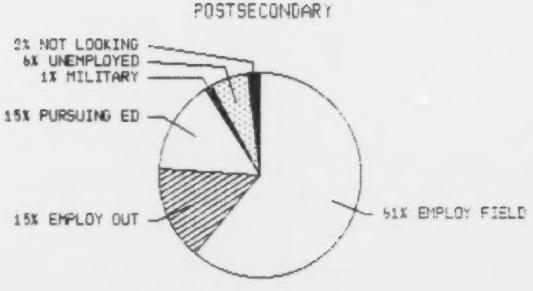
A student is counted in only one of the employment status categories. A student who is "pursuing additional education" and either "employed not related to training," "unemployed looking," or "unemployed not looking" is counted as "pursuing additional education." A student who is "pursuing additional education" and "employed related to training" is counted as "employed related to training"; a student who is "pursuing additional education" and "military service" is counted as "military service."

FIGURE 10
EMPLOYMENT STATUS FOLLOW-UP
OF VOCATIONAL EDUCATION COMPLETERS BY LEVEL
1983-84



SECONDARY, POSTSECONDARY, AND ADULT





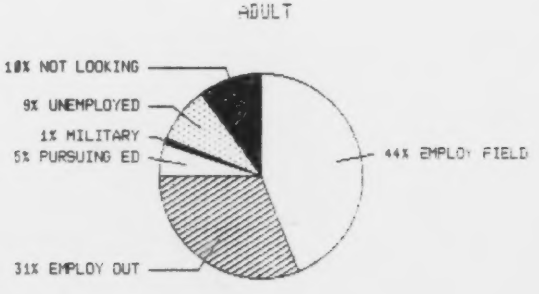


TABLE 8

AVERAGE SALARY OF VOCATIONAL EDUCATION COMPLETERS BY SEX BY LEVEL AND PROGRAM FIELD
1983-84

	Average Hourly Salary	
	Female	Male
SECONDARY	$4.57	$ 5.30
Agriculture Education	3.93	4.55
Business Education	4.71	5.15
Health Occupations Education[1]	4.27	4.70
Marketing and Distributive Education	4.19	4.89
Occupational Home Economics Education	4.05	4.62
Technical Education	4.78	5.65
Trade and Industrial Education	4.18	5.44
Not Elsewhere Classified	4.67	5.27
POSTSECONDARY	6.95	8.26
Agriculture Education[2]	5.07	7.32
Business Education	6.28	7.92
Health Occupations Education[1]	7.42	7.39
Marketing and Distributive Education [1] [2]	5.38	6.30
Occupational Home Economics Education[3]	4.64	6.94
Technical Education	8.33	8.92
Trade and Industrial Education[2]	6.85	7.66
ADULT	6.20	8.74
Agriculture Education[3]	-	9.18
Business Education	5.82	10.62
Health Occupations Education	6.30	7.56
Marketing and Distributive Education[3]	6.89	13.44
Occupational Home Economics Education[3]	4.28	3.78
Technical Education	7.00	8.28
Trade and Industrial Education	6.80	8.76

[1] Less than 30 male respondents.
[2] Less than 30 female respondents.
[3] Less than 30 respondents.

The average hourly salary was computed from salaries reported by student follow-up respondents employed 35 or more hours per week in a field related to their training.

TABLE 9

SUPPORT FOR VOCATIONAL EDUCATION BY SOURCE
1963-64 THROUGH 1984-85[1]/

(Based in Thousands of Dollars)

Fiscal Year	Local[2]/	State[2]/	Federal[3]/	Total
1963-64	$ 7 578	$ 1 982	$ 2 765	$ 12 325
1964-65	14 373	8 547	8 867	31 787
1965-66	17 706	7 925	11 201	36 832
1966-67	28 364	23 412	13 804	65 580
1967-68	48 768	31 568	14 492	94 828
1968-69	55 401	32 201	14 045	101 647
1969-70	58 195	34 927	19 692	112 814
1970-71	83 014	49 580	22 344	154 938
1971-72	90 042	54 353	25 457	169 852
1972-73	91 330	53 671	28 406	173 407
1973-74	98 069	56 436	27 438	181 943
1974-75	122 303	61 225	28 092	211 620
1975-76	157 940	73 672	28 069	259 681
1976-77	104 692	125 114	29 173	258 979
1977-78	122 515	148 734	30 455	301 704
1978-79	111 839	159 715	31 120	302 674
1979-80	116 773	198 242	33 828	348 843
1980-81	112 038	225 759	38 593	376 390
1981-82	114 634	242 207	33 825	390 666
1982-83	122 302	264 661	32 156	419 119
1983-84	123 907	270 320	35 918	430 145
1984-85	115 132	283 055	36 053	434 240

1/ Fluctuation in support levels due to variables such as changing reporting requirements, periods of heavy construction and/or equipment investment, additions to advance payment program, and difficulty in accurately identifying some local/state expenditures.
2/ Actual expenditures.
3/ Grant allotment.

Source: Bureau of Basic Education Fiscal Administration

FIGURE 11
SUPPORT FOR VOCATIONAL EDUCATION BY SOURCE
1963-64 THROUGH 1984-85

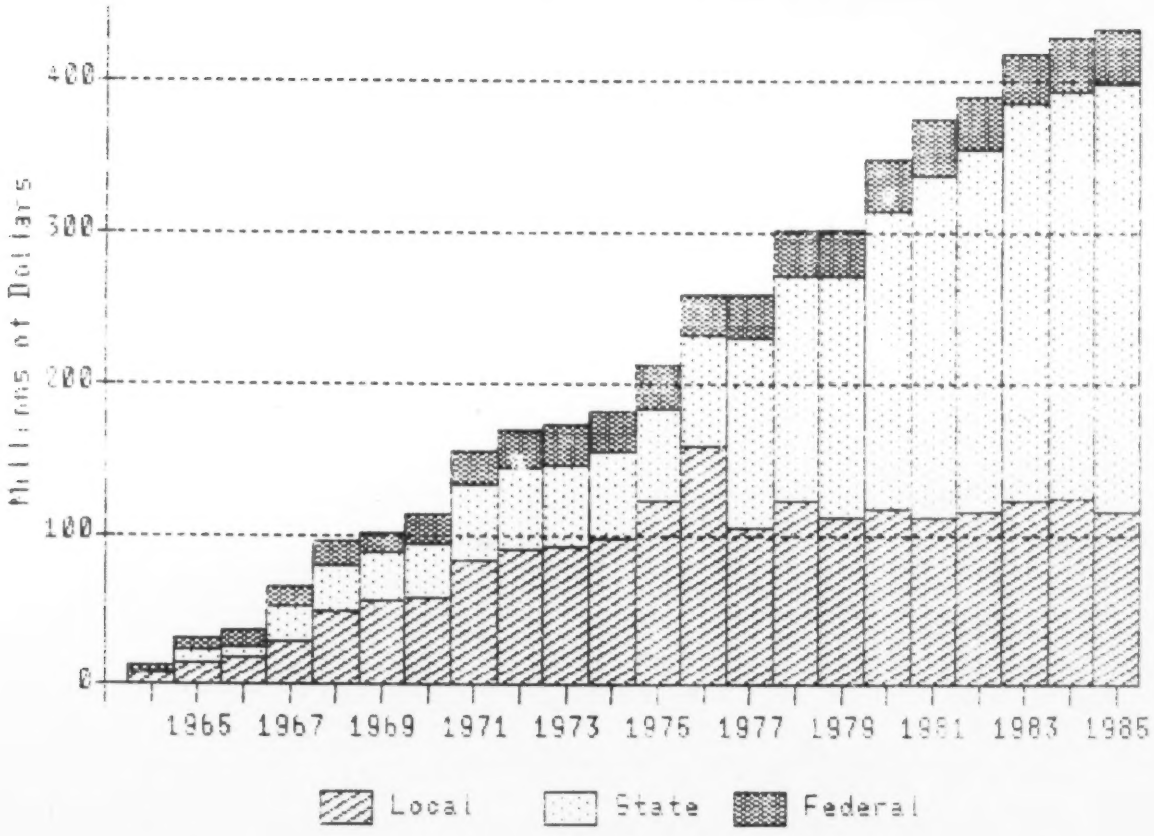


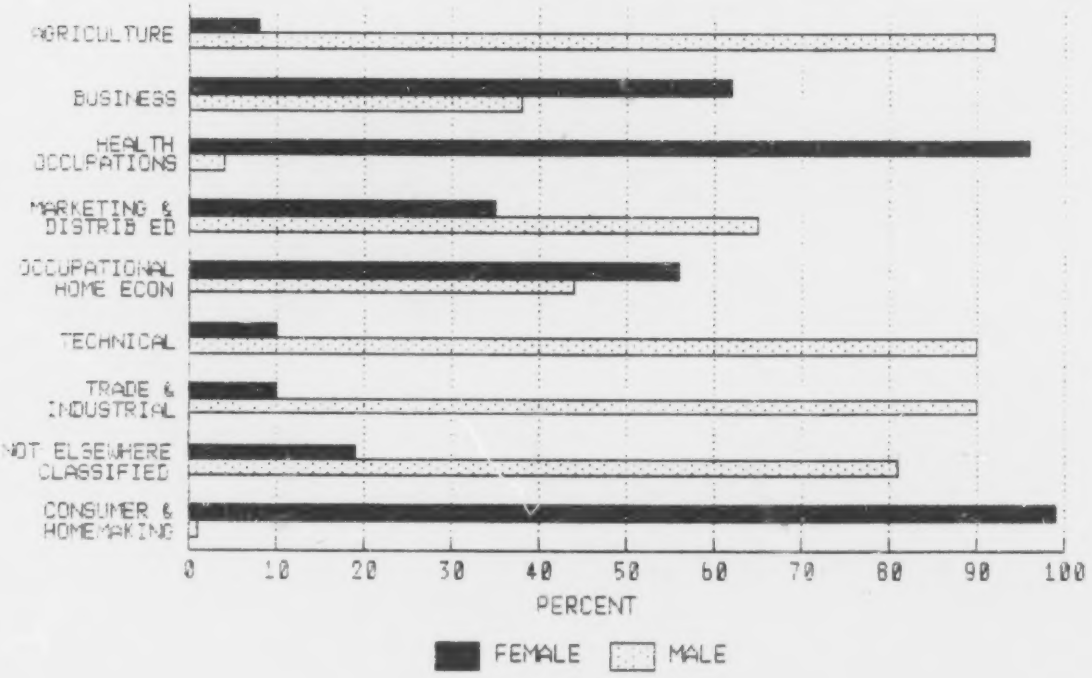
TABLE 10

NUMBER OF SECONDARY VOCATIONAL EDUCATION TEACHERS BY AGE BY PROGRAM FIELD, 1984-85

	Total	Age Groups				
		21-30	31-40	41-50	51-60	Over 60
TOTAL TEACHERS[1/]	6 380	639	1 947	1 797	1 526	471
Agriculture Education	319	84	118	72	41	4
Business Education	2 541	202	816	808	558	157
Health Occupations Education	161	11	38	55	48	9
Marketing and Distributive Education	185	16	63	48	45	13
Occupational Home Economics Education	244	29	62	56	66	31
Technical Education	250	22	54	81	71	22
Trade and Industrial Education	1 507	110	326	403	481	187
Not Elsewhere Classified	167	8	62	47	39	11
Consumer and Homemaking Education	1 006	157	408	227	177	37

1/ Does not include 205 teachers of special needs programs.

FIGURE 12
SECONDARY VOCATIONAL EDUCATION TEACHERS
BY SEX BY PROGRAM FIELD
1984-85



GLOSSARY

ADULT--A vocational education program for students who have completed or left high school that is offered in public secondary schools, intermediate units, and correctional institutions.

AMERICAN INDIAN OR ALASKAN NATIVE--A person having origins in any of the original peoples of North America, and who maintains cultural identification through tribal affiliation or community recognition.

APPRENTICE--A student enrolled in a registered or unregistered apprenticeship program involving on-the-job training and in-school instruction.

AREA VOCATIONAL-TECHNICAL SCHOOL (AVTS)--A specialized high school used principally for providing vocational education.

ASIAN OR PACIFIC ISLANDER--A person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands. The areas include, for example, China, Japan, Korea, India, the Philippine Islands, and Samoa.

BLACK, NOT OF HISPANIC ORIGIN--A person having origins in any of the black racial groups of Africa.

CAPSTONE--A cooperative education activity designed to enhance ("cap-off") the formal in-school vocational education program with a related employment experience.

COMPLETER--A student who has completed a planned sequence of courses designed to meet a vocational occupational objective.

COOPERATIVE EDUCATION--A method of providing on-the-job experience in a vocational education program. Through written arrangement between the school and employer, the student receives instruction, including required academic courses and related vocational instruction, by alternation of study in school with a job in any occupational field.

DISADVANTAGED--A student who is either academically or economically disadvantaged.

DIVERSIFIED OCCUPATIONS--A cooperative education activity for a heterogenous group of students from more than one vocational education program or for students having a vocational career objective that cannot be met by any of the school's existing vocational programs.

HANDICAPPED--A student evaluated as being deaf, deaf/blind, hard of hearing, mentally retarded, orthopedically impaired, seriously emotionally disturbed, specific learning disabled, speech impaired, visually handicapped, or other health impaired, who because of those impairments, needs special education and related services.

HISPANIC--A person of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.

LIMITED ENGLISH PROFICIENCY--A student who is a member of a national-origin minority who does not speak and understand the English language in an instructional setting well enough to benefit from vocational studies to the same extent as a student whose primary language is English.

NONRESIDENT ALIEN--A person who is not a citizen of the United States and who is in this country on a temporary basis and does not have the right to remain indefinitely.

NOT ELSEWHERE CLASSIFIED--A single-skill or special vocational education program that cannot be classified under any of the other eight program fields.

OCCUPATIONAL--A vocational education program that prepares students for employment. Includes all vocational education reported except consumer and homemaking education.

POSTSECONDARY--A vocational education program offered in higher education institutions that are legally authorized to grant degrees or that are included on the list or postsecondary institutions in the Pennsylvania State Plan for Vocational Education.

PREPARATORY--A student enrolled in a vocational program for new occupational preparation.

SECONDARY--A vocational education program offered in public secondary schools, intermediate units, and correctional institutions to students in grades nine through twelve (including ungraded students in the same age group as those students in grades nine through twelve).

SUPPLEMENTAL--A student enrolled in a vocational program to upgrade or update her/himself to achieve stability or advancement in her/his occupational field.

WHITE, NOT OF HISPANIC ORIGIN--A person having origins in any of the original peoples of Europe, North Africa, or the Middle East.

WORK EXPERIENCE--A cooperative education activity organized specially for handicapped students.